

Characteristics of Human Performance

Vigorous efforts to improve understanding of underlying processes in human behavior have been made at Bell Laboratories. Current interests include most major aspects of human information processing and performance, including perception, thinking, movement control, and learning. This section includes samples of recent work on fundamental mechanisms in visual pattern recognition (Julesz and Bergen), the timing of repetitive actions (Rosenbaum), the perceptual interpretation of graphical displays (Cleveland, Harris, and McGill), and individual variations in modes of mental problem solving (Egan). While these four papers by no means exhaust the problem areas under investigation, they do give a fair picture of the wide range of issues, methods, theory, and data involved, and the diverse domains of knowledge being enriched.

